

11-24-00

PATENT APPLICATION

ATTORNEY DOCKET NO. 10002934-1

IN THE U.S. PATENT AND TRADEMARK OFFICE  
Patent Application Transmittal LetterCOMMISSIONER FOR PATENTS  
Washington, D.C. 20231

Sir:

Transmitted herewith for filing under 37 CFR 1.53(b) is a(n):  Utility  Design original patent application, continuation-in-part applicationJC853 U.S. PTO  
09/71290  
11/21/00

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TITLE: A Method And Apparatus For Disclosing Profile Information To A Reader

Enclosed are:

(X) The Declaration and Power of Attorney.  signed  unsigned or partially signed  
 (X) 6 sheets of drawings (one set)  Associate Power of Attorney  
 ( ) Form PTO-1449  Information Disclosure Statement and Form PTO-1449  
 ( ) Priority document(s)  (Other) (fee \$ \_\_\_\_\_)

CLAIMS AS FILED BY OTHER THAN A SMALL ENTITY				
(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) TOTALS
TOTAL CLAIMS	49 — 20	29	X \$18	\$ 522
INDEPENDENT CLAIMS	5 — 3	2	X \$80	\$ 160
ANY MULTIPLE DEPENDENT CLAIMS	0		\$270	\$ 0
BASIC FEE: Design (\$320.00); Utility (\$710.00)				\$ 710
TOTAL FILING FEE				\$ 1,392
OTHER FEES				\$
TOTAL CHARGES TO DEPOSIT ACCOUNT				\$ 1,392

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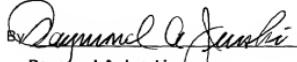
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## **METHOD AND APPARATUS FOR DISCLOSING PROFILE INFORMATION TO A READER**

### **FIELD OF THE INVENTION**

The invention relates to a method and apparatus for use with a system that provides content to a reader based upon profile information, such as the reader's geographic location, hobbies, and the like. More particularly, the invention is a method and apparatus for disclosing to a reader the profile information that caused the reader to receive particular content from the system. Moreover, various embodiments of the invention may further allow the reader to modify his or her profile information.

### **BACKGROUND OF THE INVENTION**

Since the mid 1400's, with the advent of the movable type press, written publications have been used to disseminate information. As publishing has evolved, publishers have tried to target the specific interests of readers by publishing books and periodicals that only have informational content related to a particular subject. For example, there are magazines that are directed exclusively to automobiles, interior decorating, science, antiques, and a tremendous variety of other subjects.

Advertisers have taken advantage of such topic-specific publishing. In fact, for publications on a particular subject having only limited distribution, advertising may pay for much or all of the publication costs. This arrangement allows readers to obtain informational content directed to their specific interests, while at the same time allowing advertisers to concentrate their advertising expenses for advertisements that are reasonably certain to reach the advertisers target audience.

This arrangement is an improvement over mass publishing, but it still has a number of drawbacks. First, a reader will typically have several unrelated interests. For example, a reader may be interested in automobiles, stamp collecting, gardening

and boating. In order to obtain information on each of these topics, a reader thus will typically have to subscribe to several different publications. Second, even the most specifically targeted periodical must still be generated for as broad an audience as possible. Thus, while a reader may subscribe to an automobile magazine only to read

5 articles related to particular make and model of automobile, such articles may only occasionally be printed in the magazine. If the reader does not read the magazine other than for those specific articles, then the reader will not review the advertisements accompanying the unread articles, thereby reducing the effectiveness of the magazine to the advertisers. Third, a reader may not be able to subscribe to or  
10 read every periodical relating to a specific subject, and therefore may miss an article that would be of special interest.

Recently, publishers have begun to deliver informational content electronically over information networks, such as the Internet. One such system is described in U.S. Patent Application No. 09/325,040 to Jon A. Brewster et al, filed on  
15 June 7, 1999. These types of content delivery systems allow publishers to provide very specific informational content to an individual based upon collected profile information for that individual. For example, if a reader has indicated an interest in a particular make and model of automobile, the delivery system can provide the reader with informational content (e.g., magazine articles) related to only that make and  
20 model of automobile, while filtering out other, unrelated, informational content. Similarly, along with the informational content for specific subject matter, the system can provide advertising or commercial content to a reader based upon the reader's profile information or the advertiser's profile information. For example, a ski equipment company can designate that its advertisements appear with informational  
25 content relating to skiing, or be provided to readers that have indicated an interest in the subject of skiing.

While these Internet delivery systems can provide both specifically targeted informational and advertising content to readers, these systems do not inform the readers as to why they are receiving the content. This can be very intimidating to a  
30 reader. In some instances, the system may provide content that is so specific to the reader's current situation that the reader may become concerned that his or her privacy is being violated. For example, if the reader is having financial trouble and

receives advertising content for a credit consolidation service, the reader may believe that the system has improperly obtained the reader's personal finance information. In actuality, the advertisement may only have been provided to the reader because the advertiser designated that the advertisement be included with all distributed articles

5 relating to personal finance. As the amount of personal information collected over the Internet has increased, the concern over privacy issues has increased as well, and will probably continue to do so in the foreseeable future.

Still further, the profile information for a reader may be incorrect or inaccurate, causing the reader to receive undesired content. For example, while a

10 reader owns a particular make and model of automobile, the reader's profile information may correctly indicate that the reader desires to receive articles relating to that make and model of automobile. If the reader sells that automobile, however, the reader will probably stop wanting articles relating to that make and model of automobile. If the reader's profile information is not updated, then the reader may

15 continue to receive unwanted articles about that automobile.

Moreover, the profile information may not be sufficiently specific. For example, if a reader orders an article on postage stamps featuring Elvis Presley, the reader's profile information may be automatically revised to indicate an interest in postage stamps, causing the reader to receive articles on stamp collecting. In fact, the

20 reader may be primarily interested in Elvis Presley, and thus interested in only receiving articles on postage stamps that feature Elvis Presley.

## SUMMARY OF THE INVENTION

The method and system of the invention provide various embodiments that

25 may advantageously address these drawbacks to conventional Internet content delivery systems. More particularly, the system employs a knowledge module to contain profile information, and an edit module to contain informational or subject matter content (sometimes referred to hereafter as "first" content), such as an article, and advertising or commercial content (sometimes referred to hereafter as "second" content), such as an advertisement. The system also employs a transmission module for transmitting the first content and the second content to a reader based upon the profile information contained in the knowledge module. The transmission module

also transmits to the reader at least the profile information used to make the determination that the first content and the second content be transmitted to the reader.

The transmission module uses a template to deliver the content. The template 5 may include a field for the first content and a separate field for the second content. Further, the template may have a message field for displaying messages to the reader that are produced by the delivery system, such as the reader's name, the date, pagination and the reader's location. This message field may additionally include the profile information. Alternately, the template may have an additional profile 10 information field specifically for displaying the profile information. The template may also have an interface for modifying some or all of the profile information.

The profile information transmitted to the reader for display may include content profile information corresponding to the first content, advertisement profile information corresponding to the second content, and reader profile information 15 corresponding to the reader. If the profile information includes reader profile information, it may be behavior information based upon the reader's past behavior and/or voluntary information voluntarily provided by the reader. The reader profile information may be descriptive information describing the reader's personal characteristics, "desired" information indicating specific content desired by the 20 reader, or "denied" information indicating specific content the reader does not want to receive.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

Fig. 1 is a block diagram of a content delivery system according to an 25 embodiment of the invention.

Fig. 2 illustrates the knowledge module according to an embodiment of the invention.

Fig. 3 is a flowchart describing the operation of an embodiment of the invention.

30 Figs. 4A and 4B illustrate content templates according to embodiments of the invention.

Fig. 5 illustrates a Web page displaying a reader's reader profile information.

### DETAILED DESCRIPTION OF THE EMBODIMENTS

Fig. 1 shows a block diagram of a content delivery system of one embodiment of the invention. Content delivery system 10 includes content server 100, which is operatively connected via a network 200 to a variety of personal computers, printing devices, and other electronic devices, collectively referred to as devices 300. Content server 100 includes the edit module 120, transmission module 150, and knowledge module 170. As will be explained in detail below, edit module 120 receives informational or subject matter content (i.e., first content) from one or more content providers 50, and/or advertising or promotional content (i.e., second content) from one or more advertising providers 80. In one preferred embodiment, the content server 100 is a minicomputer/server, such as a HP 9000 server, sold by the Hewlett-Packard Company. Those of ordinary skill in the art will appreciate, however, that content server 100 could alternately be any type of computing or electronic device or devices, including a network of personal computers or workstations, any of which can perform the functions described herein and still fall within the spirit and scope of the invention.

Network 200 is preferably the Internet, although an intranet, local area network or other type of public or private information network, whether wired (e.g., telephone, cable TV, etc.) wireless (e.g., satellite, radio, cell phone, etc.) or a combination of the two could also or additionally be used.

Devices 300 are shown in Fig. 1 as being configurable in a wide variety of ways. For example, personal computer 310 is shown connected to printing device 320, which prints document 10320 for reader 20320. Personal computer 310 is operatively coupled to network 200. In contrast, printing device 330, which prints document 10330 for reader 20330, is operatively coupled to network 200 without an intervening personal computer or other electronic device. Printing device 350, which prints document 10350 for reader 20350, is shown connected to electronic device 3400, which could be a set top box, television set, handheld PDA or other type of electronic device that is operatively coupled to network 200. Finally, printing device 370, which prints document 10370 for reader 20370, is connected to electronic device 350, which is operatively connected to network 200.

The printing devices shown in Fig. 1 could be printers, such as the Hewlett-Packard DeskJet 890 printer, the Hewlett-Packard Laserjet V printer, or other models of printer manufactured by Hewlett-Packard or others. The printing devices could also be so called "mopiers" or other multi-function printing devices that can print, fax, 5 scan, and/or copy, or any other device capable of transferring information to a printable media such as plain paper, specialty paper, transparencies, or other media capable of tangibly receiving such information. Still further, the printing devices may, for some embodiments of the invention, include any type of display device known in the art that can display content, such as computer monitors or television 10 screens, and even Braille "display" devices.

The knowledge module 170, shown in more detail in Fig. 2, is a database preferably stored in random access memory, or other computer storage media. As previously noted, it contains profile information that it is used to determine the particular content received by each reader or service subscriber. In some 15 embodiments of the invention, the profile information is data stored as classifications and/or keywords. Classification data would be, for example, selections from a list of criteria, such as gender, ages of family members, level of household income, and ethnicity. Keyword data, on the other hand, would be freeform or Boolean search constructs using specific terms, such as "cars" or "Ford and cars." Keyword data 20 might be entered in a facilitated fashion, as through dialogue, but may be stored as noted here.

The operation of the illustrated embodiment of the invention will now be described with reference to Fig. 3. As shown in this figure, the knowledge module 170 receives content profile [CP] information 20101 from the content providers 50 in 25 step S301A. The content profile information 20101 is profile information that is specific to the informational content (sometimes referred to hereafter as "first" content). In step S301B, the knowledge module 170 also receives advertisement profile information 20201 from the advertising providers 80. The advertisement profile information 20201 is related to the advertising or commercial content 30 (sometimes referred to hereafter as "second" content). Further, in step S301C, the knowledge module 170 receives reader (or consumer) profile [RP] information 20301, either directly or indirectly, from the reader. The reader profile information 20301

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relates to each reader's or service subscriber's preference for content to be provided to that reader. Those of ordinary skill in the art will appreciate that the steps S301A-S301C can occur in any order. Preferably, the knowledge module 170 is continuously receiving each of content profile information 20101, advertisement profile

5 information 20201, and reader profile information 20301.

The content profile [CP] information 20101 is used to indicate the subject matter of particular pieces of informational content for routing that content to readers and to control the advertising associated with that informational content. To fulfill these functions, the content profile information 20101 may include global content

10 profile [GCP] information 20103, publication profile [PP] information 20105 and/or advertisement hole profile [AHP] information 20107. For example, an informational content provider may have global content profile information 20103 with the logical keyword combination “- tarot” to preclude any of its informational content from being attached to an advertisement pertaining to tarot cards. An informational content

15 provider may also have publication profile information 20105 that include the keywords “Houston” and “Astros” for a particular piece of informational content. These keywords in the publication profile information 20105 allow that piece of informational content to be attached to other content or advertisements specifically related to the Houston Astros. These keywords also facilitate delivery of that piece of

20 informational content to those readers who have indicated a preference for informational content related to the Houston Astros. Still further, an informational content provider may have advertisement hole profile information 20107 for a particular advertising location related to a piece of informational content. For example, the informational content provider's advertisement hole profile information

25 20107 for a story on the beginning of the Little League season may include the logical keyword term “baseball and bat,” to indicate that the informational content around the advertising hole for the article may be specifically helpful in the sales of baseball bats.

The advertising profile information 20201, which the transmission module 170 receives from the advertising providers 80, similarly allows advertising providers 80

30 to attach their advertising or commercial content to the optimum informational content, and to avoid informational content that may be detrimental to the advertising provider's purpose. The advertising profile information 20201 may include both

global advertiser profile [GAP] information 20203 and specific advertisement profile [SAP] information 20205. Thus, global advertiser profile information 20203 for an athletic footwear manufacturer might contain the keyword "shoes," augmented by specific advertisement profile information 20205 for a particular advertisement

5 containing the keyword “basketball.” As a result, that particular advertisement would be eligible for delivery to users whose reader profile information 20301 did not preclude items about basketball or items about shoes.

The reader profile [RP] information 20301, which the transmission module 170 receives from a reader, allows a reader to directly or indirectly designate both

10 content he or she would like to receive, and content he or she would like to avoid.

The reader profile [RP] information 20301 may include both behavior profile information 20303 and voluntary profile information 20305. Behavior profile information 20303 is information gleaned from the reader's past behavior, such as the reader's previous choice of content from the document delivery system. For example,

15 if a reader selects a publication with content profile information 20103 containing both the keywords "Houston" and "baseball," then these keywords may be automatically added to that reader's behavior profile information 20303. Thus, the

behavior profile information 20303 allows both informational content and advertisements about baseball to reach this reader from publications that may not be about baseball, given that the reader has shown prior interest in baseball, and even if the reader has not taken the trouble to volunteer this information.

Voluntary profile information 20305 is obtained by either active or passive interaction with the reader. For example, a reader may be asked to enter a postal zip code when installing software downloaded through the content delivery system 101.

25 The zip code, gleaned through active interaction from the company, is then added to the reader's voluntary profile information 20305. As will be explained further below, the content delivery system may also provide a Web interface that allows a reader to modify his or her reader profile information 20301. This interface may be considered a passive interaction, as the reader may be required to go to some effort to access the

30 interface. Of course, those of ordinary skill in the art will appreciate that both behavior profile information 20303 and voluntary profile information 20305 can be obtained from a variety of sources in addition to or instead of the delivery system's

own interaction with the reader, such as from other Internet services provided to the reader, surveys mailed to the reader, publicly or privately maintained records, etc.

As seen from Fig. 2, the reader profile information 20301 may include data of

three general types. These are “descriptive” data 20307, “desired” data 20309, and

5 “denied” data 20311. Descriptive data 20309 is data that describes characteristics of the reader. In the example discussed above, the reader’s postal zip code is descriptive data 20307 in that it describes the reader’s geographical location. The descriptive data 20307 may serve to identify informational content that may interest the reader, such as articles on the reader’s neighborhood. It may also help identify advertising or

10 commercial content that may be of interest to the reader, such as an advertisement for a sale at a local store. Desired data 20309 is similar to descriptive data 20307, but may be given a greater degree of preference, as this data 20309 indicates subject matter for which the reader has specifically indicated an interest (either voluntarily or by past behavior). For example, if the reader has a specific interest in Cairn Terrier

15 dogs, then the logical combination of keywords “Cairn Terrier” might be included as desired data 20307 in the reader’s voluntary profile information 20305, to indicate the reader’s desire to receive content relating to Cairn Terrier dogs.

Denied data 20311 indicates subject matter for which the reader has indicated (either voluntarily or by past behavior) a desire not to receive content. That is, denied

20 data 20311 indicates when the reader has specifically “opted out” of content that matches this profile information. For example, if a reader has an aversion to spiders, the reader’s reader profile information 20301 could include denied data 20311 indicating a desire not to receive informational content relating to spiders. Similarly, if the reader has a dislike of tobacco companies, the reader’s reader profile

25 information 20301 could include denied data 20311 indicating a desire not to receive advertising content from individual tobacco companies, or from tobacco companies as a whole group. In some embodiments of the invention, denied data 20311 may be easily represented by a keyword or logical combination of keywords preceded by a minus sign (e.g., -spiders). Further, denied data 20311 may be given more weight

30 than descriptive data 20307 and desired data 20309, as it indicates a strong desire not to receive particular types of content.

The transmission module 150 is an executable computer program that is designed and written to select, in step S303, which content from the edit module 120 will be delivered to a reader based upon the profile information stored in the knowledge module 170. For example, with some embodiments of the invention, the 5 transmission module 150 may select informational content for delivery to a reader based upon a comparison of the reader's reader profile information 20301 with the content's content profile information 20101. Once informational content has been selected for a reader, the transmission module 150 may then select one or more advertisements to accompany the informational content by favorably matching each 10 advertisement's advertising profile information 20201 with the informational content's content profile information 20101 and the reader's reader profile information 20301.

Alternate embodiments of the invention may instead first match informational content to one or more advertisements by comparing the informational content's 15 content profile information 20101 with each advertisement's advertising profile information 20201. After the informational content has been matched with one or more advertisements, the transmission module 150 may then determine which readers should receive the informational content and advertisement(s) by comparing the content profile information 20101 and the advertising profile information 20201 with 20 each reader's reader profile information 20301. Of course, those of ordinary skill in the art will appreciate that a wide variety of other techniques for matching informational content, advertising and readers using profile information are known in the art and can be employed. Further, it will be appreciated that the transmission module 150 may use the profile information to select only informational content for 25 delivery to the reader, or may alternately use the profile information to select only advertising or commercial content for delivery to the reader.

In any case, after the transmission module 150 has selected content from the edit module 120 for delivery to a reader in step S303, the transmission module 150 delivers the content for delivery to the reader in step S305. As will be discussed 30 below, the transmission module 150 also delivers the relevant profile information for delivery to the reader (i.e., the profile information upon which the content was

selected for delivery to the reader) in step S305. The reader then receives the selected content and relevant profile information in step S307.

According to some embodiments of the invention, the transmission module 150 employs content templates to deliver informational content and advertisements to the reader. These templates allow information to easily be presented in an aesthetically pleasing format. A content template 40101 according to one embodiment of the invention is illustrated in Fig. 4A. As seen in this figure, the template 40101 includes a first content field 40103 for containing first content (i.e., the informational content provided by the informational content providers 50). The template 40101 also has one or more second content fields 40105 for containing second content (i.e., the advertisements provided by the advertising providers 80). Still further, the template 40101 has at least one message field 40107. This message field 40107 is used to contain messages from the content delivery system 10 to the reader. For example, the message field 40107 may be used to deliver messages such as the reader's name, the date, pagination information, and the reader's delivery location. Thus, a typical message in the message field 40107 may read:

“This is page 1 of 10 delivered to user CASTLE on  
March 13, 2000, in Corvallis, Oregon.”

With the template shown in Fig. 4A, the transmission module 150 may include the pertinent profile information with the messages in the message field 40107. Thus, with the example described above, the message field 40107 may instead read:

“This is page 1 of 10 delivered to user CASTLE on  
March 13, 2000, in Corvallis, Oregon. The materials on  
this page match user profile keywords: New York  
25 Times, Oregon, Income Level [D], Sewing, Astronomy,  
Age Interest Level [G, J], and HP DeskJet 970Cxi.”

According to another embodiment of the invention, the template 40101 may include a separate profile information field 40109, as shown in Fig. 4B. With this arrangement, for the example given above, the message field 40107 might read:

30 “This is page 1 of 10 delivered to user CASTLE on  
March 13, 2000, in Corvallis, Oregon.”

while the profile information field 40109 might read:

002934-002934-002934-002934-002934

“The materials on this page match user profile keywords: New York Times, Oregon, Income Level [D], Sewing, Astronomy, Age Interest Level [G, J], and HP DeskJet 970Cxi.”

5 As will be understood from the above description, the transmission module 150 not only selectively provides informational content and advertising to a reader, but also allows the reader to see precisely what profile information was used to direct the informational content and advertising to the reader. That is, the reader is provided with the pertinent profile information so that the reader knows why he or she is 10 receiving particular informational content and advertising. This demystifies the informational content and advertising selection process for the reader, allowing the reader to ascertain whether his or her privacy has been violated.

With still other embodiments of the invention, the transmission module 150 may also provide the reader with an interface that allows the reader to modify his or 15 her reader profile information. For example, the transmission module may include a universal resource locator (URL) address with the profile information. The URL can then refer to a Web page (e.g., a page with hypertext markup language (HTML) entries that is provided over the network 400) that allows the reader both to view his or her profile information and to modify that profile information. The profile 20 information provided through the interface may be just the pertinent profile information used to select the particular informational content and advertising being concurrently transmitted to the reader, or it may display all of the reader's reader profile information 20301, as shown in Fig. 5.

The interface may be included with the messages and the pertinent profile 25 information in the message field 40107 of the template 40101 in Fig. 4A. Thus, with the example given above, the message field 40107 may read:

“This is page 1 of 10 delivered to user CASTLE on March 13, 2000, in Corvallis, Oregon. The materials on this page match user profile keywords: New York 30 Times, Oregon, Income Level [D], Sewing, Astronomy, Age Interest Level [G, J], and HP DeskJet 970Cxi. To get more information about these keywords or to

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modify your user profile, go to <http://www.instant-delivery.com/users>."

Of course, those of ordinary skill in the art will appreciate that the interface can be included with the pertinent profile information in the profile information field 5 40109 of the template 40101 of Fig. 4B. In this instance, the profile information field 40109 might read:

10 "The materials on this page match user profile keywords: New York Times, Oregon, Income Level [D], Sewing, Astronomy, Age Interest Level [G, J], and HP DeskJet 970Cx. To get more information about these keywords or to modify your user profile, go to <http://www.instant-delivery.com/users>."

15 Still further, it will be appreciated that the interface may even be provided within a template in a separate interface field.

20 By providing the interface along with the pertinent profile information, the content delivery system 10 of the invention not only assuages concerns readers may have regarding their privacy, but also empowers readers to correct inaccurate or incorrect profile information. Thus, a reader that has received unwanted informational content or advertising from the delivery system 10 can ascertain why he or she has received the unwanted informational content or advertising, and modify his or her profile information to help prevent similar unwanted informational content or advertising from being delivered to the reader again.

25 It should be noted that, while the above-described embodiments all refer to reader profile information 20301 for examples, various embodiments of the invention may allow readers to at least view any content profile information 20101 and/or advertisement profile information 20201 that has led a reader to receive particular content or advertising. Moreover, while the interface described above is a URL address for a Web page, those of ordinary skill in the art will appreciate that an infinite variety of different interfaces can be used according to the invention to allow 30 a reader to view and/or modify his or her reader profile information 20301.

The present invention has been described above by way of specific exemplary embodiments, and the many features and advantages of the present invention are

apparent from the written description. Thus, it is intended that the appended claims cover all such features and advantages of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, the specification is not intended to limit the invention to the exact construction and

5 operation as illustrated and described. For example, the invention may include any one or more elements from the apparatus and methods described herein in any combination or subcombination. Accordingly, there are any number of alternative combinations for defining the invention, which incorporate one or more elements from the specification (including the drawings, claims, and summary of the invention)

10 in any combinations or subcombinations. Hence, all suitable modifications and equivalents may be considered as falling within the scope of the appended claims.

What is claimed is:

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1. A template for displaying content to a reader, comprising:  
a first field for displaying first content;  
a second field for displaying a second content, the first and second content  
being selected for display based upon profile information including at least reader  
profile information; and  
5 a third field for displaying the profile information.

2. The template recited in claim 1, wherein the profile information further  
includes content profile information corresponding to the first content.

10 3. The template recited in claim 2, wherein the content profile information  
includes one or more types of information selected from the group consisting of:  
global content information, publication profile information, and advertisement hole  
profile information.

15 4. The template recited in claim 1, wherein the profile information further  
includes advertisement profile information corresponding to the second content.

5. The template recited in claim 4, wherein the advertisement profile information  
includes one or more types of information selected from the group consisting of:  
global advertisement information and specific advertisement information.

20 6. The template recited in claim 1, wherein the reader profile information  
includes one or more types of information selected from the group consisting of:  
behavior information and voluntary information.

25 7. The template recited in claim 1, wherein the reader profile information  
includes one or more types of information selected from the group consisting of:  
descriptive information, desired information and denied information.

8. The template recited in claim 1, wherein the template further includes a fourth field for displaying an interface usable by the reader to modify the reader profile information.

5 9. The template recited in claim 8, wherein the interface is a universal resource locator for a page usable by the reader to modify the reader profile information.

10. A document delivery system for delivery of documents to a reader via a network, comprising:

10 a knowledge module containing profile information, including at least reader profile information;

an edit module containing first content and second content; and  
a transmission module for

15 transmitting the first content and the second content to a reader for display based upon the profile information, and

transmitting at least a portion of the reader profile information for display to the reader.

11. The document delivery system recited in claim 10, wherein the profile information includes content profile information corresponding to the first type of content.

12. The document delivery system recited in claim 11, wherein the content profile information includes one or more types of information selected from the group 25 consisting of: global content information, publication profile information, and advertisement hole profile information.

13. The document delivery system recited in claim 10, wherein the profile information includes advertisement profile information corresponding to the second content.

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14. The document delivery system recited in claim 13, wherein the advertisement profile information includes one or more types of information selected from the group consisting of: global advertisement information and specific advertisement information.

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15. The document delivery system recited in claim 10, wherein the reader profile information includes one or more types of information selected from the group consisting of: behavior information and voluntary information.

10 16. The document delivery system recited in claim 10, wherein the reader profile information includes one or more types of information selected from the group consisting of: descriptive information, desired information and denied information.

15 17. The document delivery system recited in claim 10, wherein the transmission module further transmits an interface usable by the reader to modify the reader profile information.

20 18. The document delivery system recited in claim 17, wherein the interface is a universal resource locator for a page usable by the reader to modify the reader profile information.

25 19. A method of delivering informational content to a reader, comprising:  
receiving profile information, including at least reader profile information identifying content preferences for the reader;  
receiving first content;  
receiving second content; and  
transmitting to a reader  
the first content and the second content based on the profile information, and  
30 at least a portion of the reader profile information.

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20. The method of delivering content to a reader recited in claim 19, wherein the profile information includes content profile information corresponding to the first type of content.

5 21. The method of delivering content to a reader recited in claim 20, wherein the content profile information includes one or more types of information selected from the group consisting of: global content information, publication profile information, and advertisement hole profile information.

10 22. The method of delivering content to a reader recited in claim 19, wherein the profile information includes advertisement profile information corresponding to the second type of content.

15 23. The method of delivering content to a reader recited in claim 22, wherein the advertisement profile information includes one or more types of information selected from the group consisting of: global advertisement information and specific advertisement information.

20 24. The method of delivering content to a reader recited in claim 19, wherein the reader profile information includes one or more types of information selected from the group consisting of: behavior information and voluntary information.

25 25. The method of delivering content to a reader recited in claim 19 wherein the reader profile information includes one or more types of information selected from the group consisting of: descriptive information, desired information and denied information.

30 26. The method of delivering content to a reader recited in claim 19, further including displaying an interface usable by the reader to modify the reader profile information.

27. The method of delivering content to a reader recited in claim 26, wherein the interface is a universal resource locator for a page usable by the reader to modify the reader profile information.

5 28. A method of receiving content to read, comprising:  
receiving a display of first content;  
receiving a display of second content; and  
receiving a display of profile information, including at least reader profile information, related to the first or second content.

10 29. The method of receiving content recited in claim 28, wherein the profile information includes content profile information corresponding to the first type of content.

15 30. The method of receiving content recited in claim 29, wherein the content profile information includes one or more types of information selected from the group consisting of: global content information, publication profile information, and advertisement hole profile information.

20 31. The method of receiving content recited in claim 28, wherein the profile information includes advertisement profile information corresponding to the second type of content.

32. The method of receiving content recited in claim 31, wherein the advertisement profile information includes one or more types of information selected from the group consisting of: global advertisement information and specific advertisement information.

25 33. The method of receiving content recited in claim 28, wherein the reader profile information includes one or more types of information selected from the group consisting of: behavior information and voluntary information.

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34. The method of receiving content recited in claim 28, wherein the reader profile information includes one or more types of information selected from the group consisting of: descriptive information, desired information and denied information.

5 35. The method of receiving content recited in claim 28, further including receiving an interface usable by the reader to modify the reader profile information.

10 36. The method of receiving content recited in claim 35, wherein the interface is a universal resource locator for a page usable by the reader to modify the reader profile information.

37. An apparatus for delivering documents to a reader via a network, comprising: knowledge storage means for storing profile information, including at least reader profile information;

15 edit means for storing at least one of first content and second content; and transmission means for transmitting the first content and the second content to a reader for display based upon the profile information, and transmitting at least a portion of the reader profile information for display to the reader.

20 38. The apparatus recited in claim 37, wherein the profile information includes content profile information corresponding to the first type of content.

25 39. The apparatus recited in claim 38, wherein the content profile information includes one or more types of information selected from the group consisting of: global content information, publication profile information, and advertisement hole profile information.

30 40. The apparatus recited in claim 37, wherein the profile information includes advertisement profile information corresponding to the second content.

41. The apparatus recited in claim 40, wherein the advertisement profile information includes one or more types of information selected from the group consisting of: global advertisement information and specific advertisement information.

5

42. The apparatus recited in claim 37, wherein the reader profile information includes one or more types of information selected from the group consisting of: behavior information and voluntary information.

10 43. The apparatus recited in claim 37, wherein the reader profile information includes one or more types of information selected from the group consisting of: descriptive information, desired information and denied information.

15 44. The apparatus recited in claim 37, wherein the transmission means also transmits an interface usable by the reader to modify the reader profile information.

45. The apparatus recited in claim 44, wherein the interface is a universal resource locator for a page usable by the reader to modify the reader profile information.

20 46. The apparatus of claim 44 wherein said edit means is comprised of a computer.

47. The apparatus of claim 44 wherein said knowledge storage means is comprised of a computer.

25

48. The apparatus of claim 44 wherein said transmission means is comprised of a computer.

49. The apparatus of claim 44 wherein said transmission means is comprised of a data network.

**A METHOD AND APPARATUS FOR  
DISCLOSING PROFILE INFORMATION TO A READER**

**Abstract of the Disclosure**

A document delivery system that provides first content and second content to a  
5 reader over a network, such as the Internet. The delivery system selects content for  
the reader based upon profile information. The profile information may relate to any  
one or more of the first content, the second content, and the reader. In addition to  
providing the first and second content to the reader, the delivery system also provides  
at least the profile information used to select the first content and second content for  
10 delivery to the reader.

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DOCUMENT DELIVERY SYSTEM 10

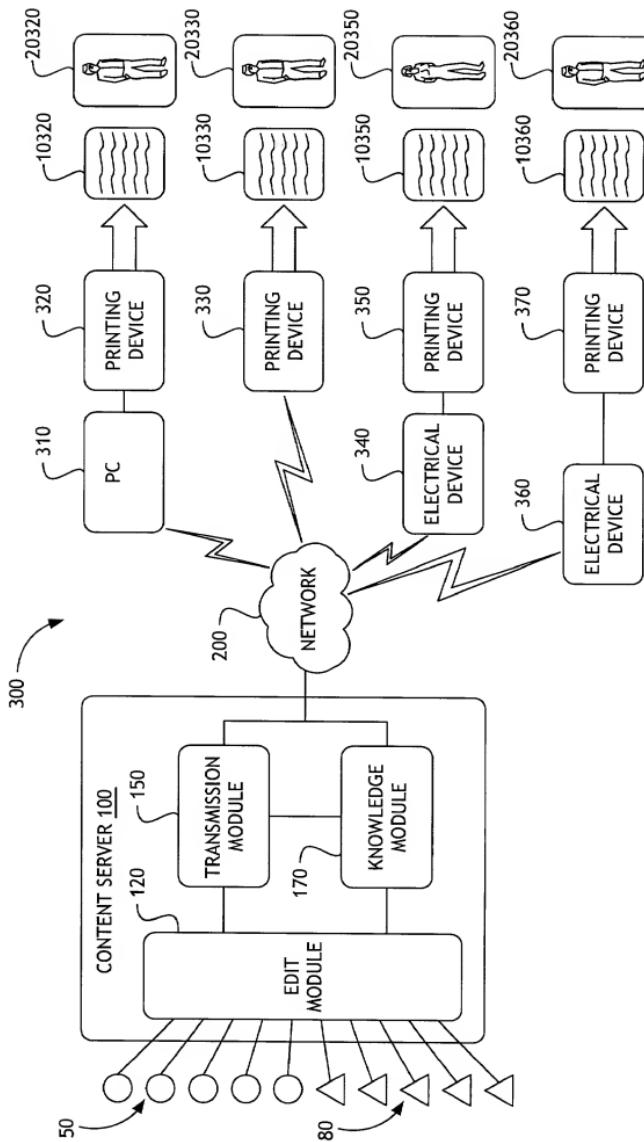


Fig. 1

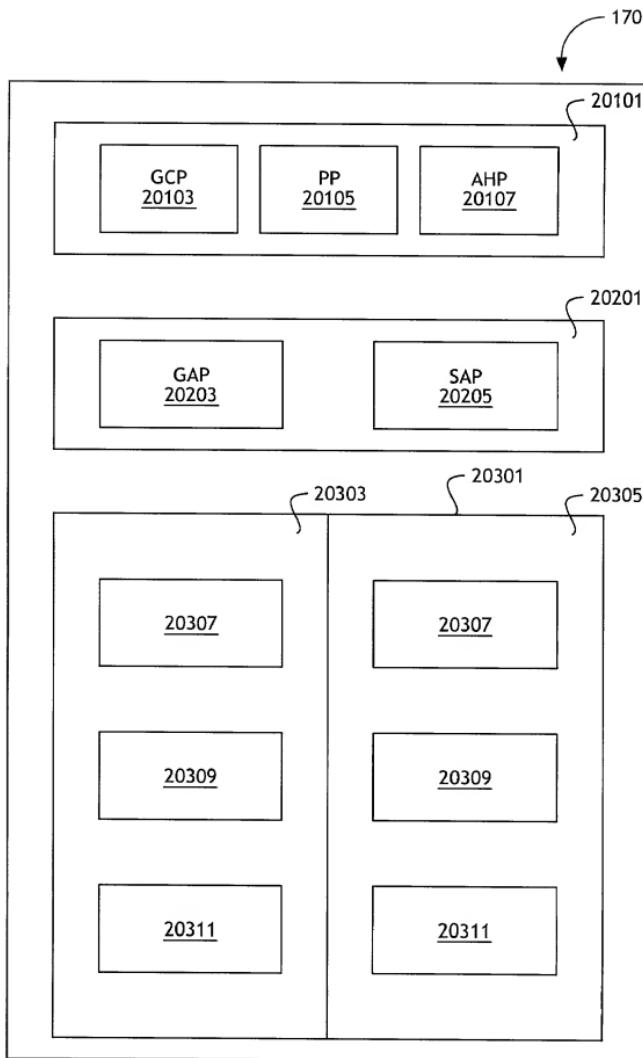


Fig. 2

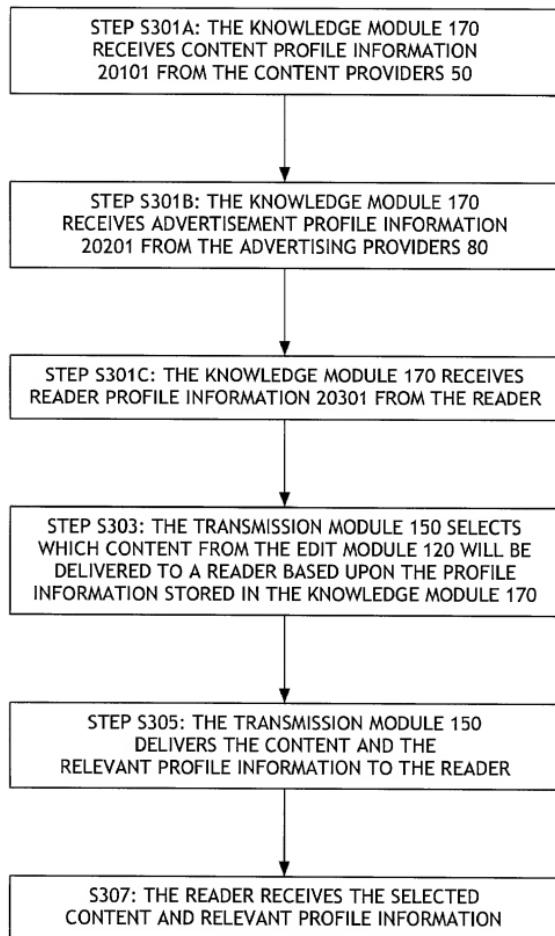


Fig. 3

09718290-112100

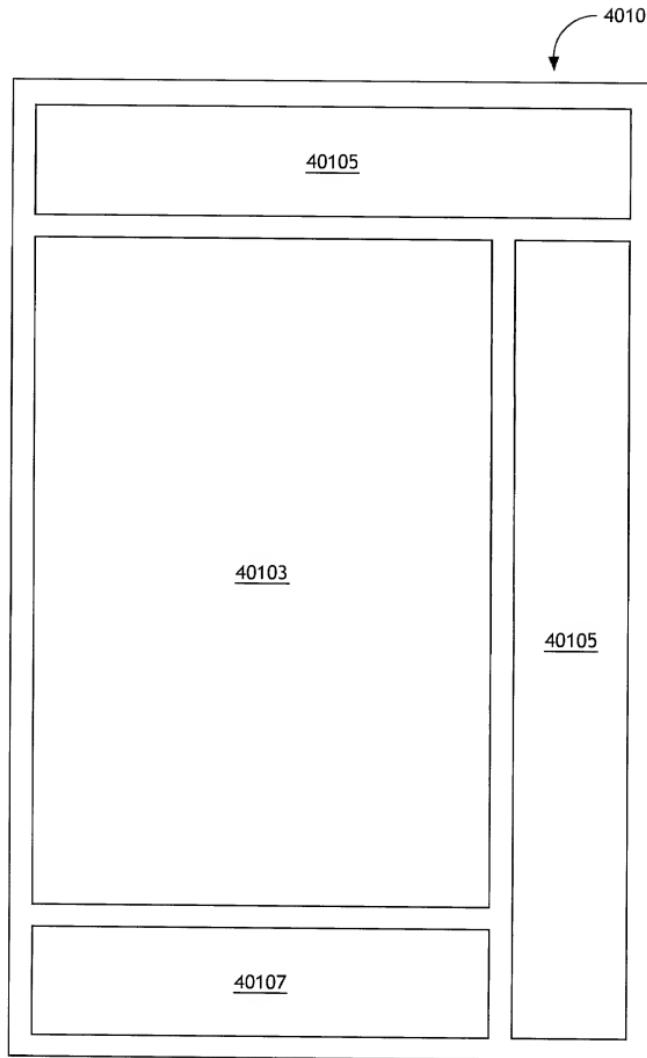


Fig. 4A

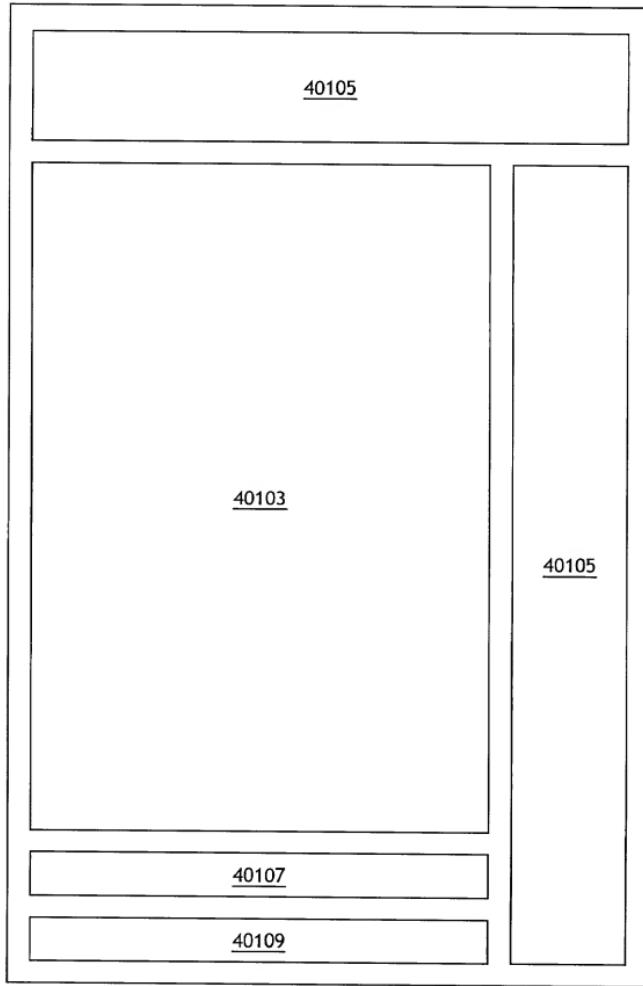


Fig. 4B

PROFILE INFORMATION FOR SUBSCRIBER NO. 57660

ADDRESS: 123 MAIN STREET  
CITY: NOWHERE  
STATE: OREGON  
POSTAL CODE: 97210  
COUNTRY: UNITED STATES

AGE CLASS: G (35-40)

SEX: MALE

INCOME LEVEL: D (\$65,000-\$75,000)

MARITAL STATUS: SINGLE

PROFESSION: ELECTRICAL ENGINEER

HOBBIES/INTERESTS:  
ASTRONOMY  
RED + WINE  
- (WHITE + WINE)  
AUTOMOBILE + RACING + NASCAR  
COOKING  
WHITEWATER + KAYAKING  
- ((SEA OR OCEAN) + KAYAKING)

Fig. 5

DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION

ATTORNEY DOCKET NO. 10002934-1

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

A Method And Apparatus For Disclosing Profile Information To A Reader

the specification of which is attached hereto unless the following box is checked:

(  ) was filed on \_\_\_\_\_ as US Application Serial No. or PCT International Application Number \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

## Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor(s) certificate listed below and have also identified below any foreign application for patent or inventor(s) certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE FILED	PRIORITY CLAIMED UNDER 35 U.S.C. 119
			YES: <input type="checkbox"/> NO: <input type="checkbox"/>
			YES: <input type="checkbox"/> NO: <input type="checkbox"/>

## Provisional Application

I hereby claim the benefit under Title 35, United States Code Section 119(e) of any United States provisional application(s) listed below:

APPLICATION SERIAL NUMBER	FILING DATE

## U. S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION SERIAL NUMBER	FILING DATE	STATUS (patented/pending/abandoned)

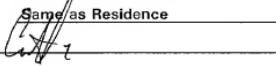
## POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Customer Number **022879**Place Customer  
Number Bar Code  
Label here

Send Correspondence to: <b>HEWLETT-PACKARD COMPANY</b> Intellectual Property Administration P.O. Box 272400 Fort Collins, Colorado 80527-2400	Direct Telephone Calls To:  <b>Raymond A Jenski</b> (541) 715-8441
-----------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Inventor: **Daniel C. Castle** Citizenship: **US**Residence: **14995 Ferns Corner Rd. Monmouth, OR 97361**Post Office Address: **Same as Residence**Inventor's Signature: **11-16-2000**

Date